1.	Record Nr.	UNINA9910523890403321
	Autore	Powers David
	Titolo	PHP 8 solutions : dynamic web design and development made easy / / David Powers
	Pubbl/distr/stampa	[California] : , : Apress, , [2022] ©2022
	ISBN	1-5231-5085-8 1-4842-7141-6
	Edizione	[Fifth edition.]
	Descrizione fisica	1 online resource (571 pages)
	Disciplina	005.2762
	Soggetti	PHP (Computer program language) Web sites - Design
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Nota di contenuto	Intro -- Table of Contents -- About the Author -- About the Technical Reviewer -- Acknowledgments -- Introduction -- Chapter 1: What Is PHP 8? -- How PHP Has Grown -- How PHP Makes Pages Dynamic -- Creating Pages That Think for Themselves -- How Hard Is PHP to Use and Learn? -- Can I Just Copy and Paste the Code? -- How Safe Is PHP? -- What's New in PHP 8? -- What Software Do I Need to Write PHP? -- What to Look for When Choosing a PHP Editor -- So Let's Get On with It… -- Chapter 2: Getting Ready to Work with PHP -- Checking Whether Your Web Site Supports PHP -- Deciding Where to Test Your Pages -- What You Need for a Local Test Environment -- Setting Up on Windows -- Getting Windows to Display Filename Extensions -- Choosing a Web Server -- Installing an All-in-One Package on Windows -- Setting Up on macOS -- Installing MAMP -- Testing and Configuring MAMP -- Where to Locate Your PHP Files (Windows and Mac) -- Checking Your PHP Settings -- Displaying the Server Configuration with phpinfo() -- Editing php.ini -- What's Next? -- Chapter 3: How to Write PHP Scripts -- PHP: The Big Picture -- Telling the Server to Process PHP -- Embedding PHP in a Web Page -- Storing PHP in an External File -- Using Variables to Represent Changing Values -- Naming Variables -- Assigning Values to Variables -- Ending Commands with a Semicolon -- Commenting Scripts -- Single-Line

Comments -- Multiline Comments -- Using Arrays to Store Multiple Values -- PHP's Built-In Superglobal Arrays -- Understanding When to Use Quotes -- Special Cases: True, False, and Null -- Making Decisions -- Making Comparisons -- Using Indenting and Whitespace for Clarity -- Using Loops for Repetitive Tasks -- Using Functions for Preset Tasks -- Displaying PHP Output -- Using the Short Echo Tag -- Joining Strings Together -- Working with Numbers -- Understanding PHP Error Messages.

Why Is My Page Blank? -- PHP Quick Checklist -- Chapter 4: PHP: A Quick Reference -- Using PHP in an Existing Web Site -- Data Types in PHP -- Checking the Data Type of a Variable -- Explicitly Changing a Variable's Data Type -- Checking Whether a Variable Has Been Defined -- Doing Calculations with PHP -- Arithmetic Operators -- Using the Increment and Decrement Operators -- Determining the Order of Calculations -- Combining Calculations and Assignment -- Adding to an Existing String -- All You Ever Wanted to Know About Quotes-and More -- How PHP Treats Variables Inside Strings -- Using Escape Sequences Inside Double Quotes -- Embedding Associative Array Elements in a String -- Avoiding the Need to Escape Quotes with Heredoc Syntax -- Creating Arrays -- Building an Indexed Array -- Building an Associative Array -- Creating an Empty Array -- Multidimensional Arrays -- Using print_r() to Inspect an Array -- The Truth According to PHP -- Explicit Boolean Values -- Implicit Boolean ("Truthy" and "Falsy") Values -- Making Decisions by Comparing Two Values -- Testing More Than One Condition -- Using the switch Statement for Decision Chains -- Using a match Expression for Decision Chains -- Using the Ternary Operator -- Setting a Default Value with the Null Coalescing Operator -- Executing Code Repeatedly with a Loop -- Loops Using while and do . . . while -- The Versatile for Loop -- Looping Through Arrays and Objects with foreach -- Breaking Out of a Loop -- Modularizing Code with Functions -- Passing Values to Functions -- Setting Default Values for Arguments -- Variable Scope: Functions as Black Boxes -- Returning Values from Functions -- Generators: A Special Type of Function That Keeps on Giving -- Passing by Reference: Changing the Value of an Argument -- Functions That Accept a Variable Number of Arguments.

Automatically Unpacking an Array Passed to a Function -- Optionally Specifying Data Types -- Specifying Multiple Data Types -- Using Named Arguments -- Where to Locate Custom-Built Functions -- Creating Anonymous Functions -- Using the Concise Anonymous Syntax of Arrow Functions -- Understanding PHP Classes and Objects -- Using PHP Built-In Classes -- Building Custom Classes -- Accessing Methods and Properties in a Class -- Setting the Visibility of Class Methods, Properties, and Constants -- Using Constructor Property Promotion -- Declaring and Using Class Constants -- Using a Namespace to Avoid Naming Conflicts -- Importing a Namespaced Class -- Handling Errors and Exceptions -- Creating New Variables Dynamically -- Now to the Solutions -- Chapter 5: Lightening Your Workload with Includes -- Including Code from External Files -- Introducing the PHP Include Commands -- Where PHP Looks for Include Files -- PHP Solution 5-1: Moving the Menu and Footer to Include Files -- Choosing the Right Filename Extension for Includes -- PHP Solution 5-2: Testing the Security of Includes -- PHP Solution 5-3: Automatically Indicating the Current Page -- PHP Solution 5-4: Automating a Page's Title from Its Filename -- PHP Solution 5-5: Handling Missing Variables -- Creating Pages with Changing Content -- PHP Solution 5-6: Automatically Updating a Copyright Notice -- PHP Solution 5-7: Displaying a Random Image -- PHP Solution 5-8: Adding a Caption to the Random Image -- Preventing Errors with Include Files -- Checking the Existence of Variables -- Checking Whether a Function or Class Has Been Defined -- Suppressing Error Messages on a Live Web Site -- Using the Error Control Operator -- Turning Off display_errors in the PHP Configuration -- Turning Off display_errors in an Individual File -- PHP Solution 5-9: Redirecting When an Include File Can't Be Found.

Why Can't I Use Site Root-Relative Links with PHP Includes? -- Document-Relative Links -- Links Relative to the Site Root -- Links Inside Include Files -- Choosing Where to Locate Your Include Files -- Security Considerations with Includes -- Adjusting Your include_path -- Editing the include_path in php.ini or .user.ini -- Using .htaccess to Change the include_path -- Using set_include_path() -- Nesting Include Files -- Chapter Review -- Chapter 6: Bringing Forms to Life -- How PHP Gathers Information from a Form -- Understanding the Difference Between post and get -- Getting Form Data with PHP Superglobals -- Processing and Validating User Input -- Creating a Reusable Script -- PHP Solution 6-1: Preventing Cross-Site Scripting in a Self-Processing Form -- PHP Solution 6-2: Making Sure Required Fields Aren't Blank -- Preserving User Input When a Form Is Incomplete -- PHP Solution 6-3: Creating Sticky Form Fields -- Filtering Out Potential Attacks -- PHP Solution 6-4: Blocking Email Addresses That Contain Suspect Content -- Sending Email -- Using Additional Email Headers Safely -- PHP Solution 6-5: Adding Headers and Automating the Reply Address -- PHP Solution 6-6: Building the Message Body and Sending the Mail -- Troubleshooting mail() -- Handling Multiple-Choice Form Elements -- PHP Solution 6-7: Handling Radio Button Groups -- PHP Solution 6-8: Handling Check-Box Groups -- PHP Solution 6-9: Using a Drop-Down Option Menu -- PHP Solution 6-10: Handling a Multiple-Choice List -- PHP Solution 6-11: Handling a Single Check Box -- Chapter Review -- Chapter 7: Using PHP to Manage Files -- Checking That PHP Can Open a File -- Creating a Folder Outside the Server Root for Local Testing on Windows -- Creating a Folder Outside the Server Root for Local Testing on macOS -- Configuration Settings That Affect File Access -- Reading and Writing to Files.

Reading Files in a Single Operation -- PHP Solution 7-1: Getting the Contents of a Text File -- Opening and Closing Files for Read/Write Operations -- Reading a File with fopen() -- PHP Solution 7-2: Extracting Data from a CSV File -- Replacing Content with fopen() -- Appending Content with fopen() -- Locking a File Before Writing -- Preventing Overwriting an Existing File -- Combined Read/Write Operations with fopen() -- Moving the Internal Pointer -- Exploring the File System -- Inspecting a Folder with scandir() -- Inspecting the Contents of a Folder with FilesystemIterator -- Restricting File Types with the RegexIterator -- PHP Solution 7-3: Building a Drop-Down Menu of Files -- PHP Solution 7-4: Creating a Generic File Selector -- Accessing Remote Files -- Consuming News and Other RSS Feeds -- Using SimpleXML -- PHP Solution 7-5: Consuming an RSS News Feed -- Creating a Download Link -- PHP Solution 7-6: Prompting a User to Download an Image -- Chapter Review -- Chapter 8: Working with Arrays -- Modifying Array Elements -- PHP Solution 8-1: Modify Array Elements with a Loop -- PHP Solution 8-2: Modify Array Elements with array_walk() -- PHP Solution 8-3: Modify Array Elements with array_map() -- Merging Arrays -- Using the Array Union Operator -- Using array_merge() and array_merge_recursive() -- Merging Two Indexed Arrays into an Associative Array -- Comparing Arrays -- Removing Duplicate Elements -- PHP Solution 8-4: Joining an Array

with Commas -- Sorting Arrays -- PHP Solution 8-5: Custom Sorting with the Spaceship Operator -- Complex Sorting with array_multisort() -- PHP Solution 8-6: Sorting a Multidimensional Array with array_multisort() -- PHP Solution 8-7: Finding All Permutations of an Array -- Processing Array Data -- PHP Solution 8-8: Building Nested Lists Automatically -- PHP Solution 8-9: Extracting Data from JSON -- Automatically Assigning Array Elements to Variables.

Sommario/riassunto

Make your websites more dynamic by adding a feedback form, creating a private area where members can upload images that are automatically resized, or storing all your content in a database. David Powers has updated his definitive book to incorporate the latest techniques and changes to PHP with the arrival of PHP 8. New features include named attributes, constructor property promotion, the stricter and more concise match expression, union types, and more. The problem is, you're not a programmer and the thought of writing code sends a chill up your spine. Or maybe you've dabbled a bit in PHP and MySQL, but you can't get past baby steps. If this describes you, then you've just found the right book. PHP powers four out of every five websites that use a server-side language. In combination with the MySQL database it's ideal for creating dynamic websites. PHP and MySQL are free, easy to use, and provided by many web hosting companies in their standard packages. This book also covers MariaDB, a seamless replacement for MySQL that has been adopted on many web servers. Unfortunately, most PHP books either expect you to be an expert already or force you to go through endless exercises of little practical value. In contrast, this book gives you real value right away through a series of practical examples that you can incorporate directly into your sites, optimizing performance and adding functionality such as file uploading, email feedback forms, image galleries, content management systems, and much more. Each solution is created with not only functionality in mind, but also visual design. But this book doesn't just provide a collection of ready-made scripts: each PHP solution builds on what's gone before, teaching you the basics of PHP and database design quickly and painlessly. You'll learn how to optimize your code using object-oriented programming (OOP) techniques. By the end of the book, you'll have the confidence to start writing your own scripts or-if you prefer to leave that task to others-to adapt existing scripts to your own requirements. Right from the start, you're shown how easy it is to protect your sites by adopting secure coding practices. What You Will Learn Design and build dynamic PHP-based web sites and applications Get started right away through practical examples that you can reuse Incorporate PHP 8 elements including named attributes, constructor property promotion, and union types.